



Single component, moisture-cured, liquid-applied polyurethane-based roof coating cures to form a strong, elastic and impermeable water membrane.

KEY FEATURES

- Ponding Water Resistant
- Easy application by brush, roller or airless spray
- Monolithic membrane tightly adhered with substrate
- Excellent resistance to weather conditions : rain, water, frost, UV rays
- Excellent crack-bridging & elastic properties even at very low temperature 105°F (-40° C)
- Excellent adhesion on several substrates without use of primer
- Good resistance to chemicals and detergents and does not release any dangerous goods after fully cured
- High reflection of solar energy (only in white color) and significant reduction of the temperature inside the building during summer
- Excellent thermal resistance. The membrane does not turn soft or tacky at high temperatures +175°F (+80° C)

APPLICATION GUIDELINES

Applicable Substrates

EnerThane AR 150 is designed and formulated as roof waterproof coating. Due to its hydrophobic nature, EnerThane AR 150 is suitable for ponding water areas, roofs, basements, tanks, balconies, terraces, flowerbeds, cut & cover tunnels, irrigation channels, bridges, parking decks, bathrooms or kitchens (under tile), roofs with polyurethane insulation foam, etc.

Preparation

Before application, surface must be clean from loose particles, dust, oil, etc. EnerThane AR 150 should generally be applied on dry surfaces. Old coatings should be removed. The substrate should not be washed with water prior to the application of the coating. A moisture content of less than 5% is generally recommended for concrete surfaces. Joints and cracks must be sealed with EnerSil sealant.

Priming

EnerThane AR 150 can be applied without the use of a primer. However, Primer is recommended in order to improve adhesion and mechanical properties. Wet substrates should generally be avoided. For application on top of bitumen- based coatings or bitumen felts, it is suggested to use bleed-block primer.

Application

EnerThane AR 150 can be applied by roller, brush or airless spray. For improved mechanical and crack-bridging properties, it is recommended to apply EnerThane AR 150 together with non-woven - needle-punched polyester geotextile of 120 gr/m². The geotextile is applied on top of freshly applied first coat of

TECHNICAL PROPERTIES

Characteristics	*Values
Density	1.4 gr/cm ³
Viscosity	1,350 cPs
Drying Time	4 hours @ 74° F (23°C)
Tensile Strength	6.5 MPa (940 psi)
Elongation	700%
Hardness (Shore A)	74
Water Vapor Permeability	< 1 perm (13 gr/m ² /day @ 74° F (23°C))
Temperature variations resistance	-40°F to 194°F (-40 to 90° C)
Adhesion with concrete (with primer)	> 2 N/mm ²
Accelerated Weathering Test (2400 hrs)	Passed (No significant changes)

* Actual spread rate and DFT may vary based on surface condition, wastage and film thickness applied.

EnerThane AR 150. The use of EnerThane AR 150 together with geotextile is highly recommended for sealing joints and cracks, as well as the corners between the floor and the wall or any other connection such as chimneys, bases of solar panels, etc. Furthermore, the use of EnerThane AR 150 in combination with geotextiles is also recommended for waterproofing roofs with cementitious screeds which have the tendency to crack. Time interval between each coat is at least 3 hours and must not exceed 48 hours. When primer is applied, the first coat of EnerThane AR 150 can be applied not earlier than 1 hour and not later than 24 hours from the application of the primer. The drying time is significantly affected by the environmental conditions (temperature and humidity). For application by airless spray, it is suggested to dilute the product with Xylene up to 10%. Never dilute the product with water. The same solvent can be used for cleaning the tools or the equipment from the fresh coating. Once the material is cured, it can only be removed mechanically. EnerThane AR 150 can be slippery, when wet. To avoid this effect, the coating can be sprinkled on top with an appropriate particle size of quartz while it is still fresh.

Weather Conditions

Rainy weather should be avoided.

Coverage

A minimum consumption of 0.5 – 0.6 Gal/ft² (1.5 – 1.8 kg/m²) is recommended. In any case the consumption depends on the roughness of the surface. In a single coat, do not apply more than 0.3 Gal/ft² as this might lead to bubble entrapment inside the coat.



Curing time

12 to 24 hours (depending on environmental conditions)

Shelf Life

At least 12 months in sealed containers, when stored in dry and cool areas.

Colors

White – Other Colors on Special Order

Packaging Size

4.75 Gal. Pail

Disclaimer:

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products. ENERCON guarantees that its products comply with its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations. Users are requested to check that they are in possession of the latest version of this document and ENERCON is at their disposal to supply any additional information.

For more details:

Website : www.enercon-group.com

Address : Tampa, Florida, USA

Email: info@enercon-group.com

Contact: +1 786 726 0788